

Rosen Mitrev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Energy Harvesting With Thermally Induced Vibrations in Shape Memory Alloys by a Constant Temperature Heater. IEEE/ASME Transactions on Mechatronics, 2022, 27, 475-484.	5.8	3
2	Multicriteria optimal selection of a hydraulic cylinder for drive mechanisms. FME Transactions, 2021, 49, 501-510.	1.4	0
3	Theoretical and Experimental Study of a Thermo-Mechanical Model of a Shape Memory Alloy Actuator Considering Minor Hystereses. Crystals, 2021, 11, 1120.	2.2	6
4	Modeling and study of a novel electrothermal oscillator based on shape memory alloys. IOP Conference Series: Materials Science and Engineering, 2020, 878, 012059.	0.6	2
5	A Parametric Study of an Electrothermal Oscillator Based on Shape Memory Alloys. , 2020, , .		0
6	On the Existence of Oscillatory Modes in a Nonlinear System with Hystereses. Differential Equations, 2020, 56, 1081-1099.	0.7	7
7	Force analysis and kinematic optimization of a fluid valve driven by shape memory alloys. Reports in Mechanical Engineering, 2020, 1, 61-76.	7.7	10
8	Numerical study of the hydraulic excavator overturning stability during performing lifting operations. Advances in Mechanical Engineering, 2019, 11, 168781401984177.	1.6	6
9	Web-based VR Environment for Simulation and Visualization of Construction Manipulator Motion. , 2019, , .		1
10	Web-based virtual reality for simulation of a heavy manipulator with a freely suspended payload. IOP Conference Series: Materials Science and Engineering, 2019, 664, 012015.	0.6	0
11	Qualitative analysis of oscillating magnetomechanical system. IOP Conference Series: Materials Science and Engineering, 2019, 618, 012054.	0.6	5
12	CLOUD-BASED EXPERT SYSTEM FOR SYNTHESIS AND EVOLUTIONARY OPTIMIZATION OF PLANAR LINKAGES. Facta Universitatis, Series: Mechanical Engineering, 2018, 16, 139.	4.6	6
13	Dynamic behavior of a hydraulic crane operating a freely suspended payload. Journal of Zhejiang University: Science A, 2017, 18, 268-281.	2.4	4
14	Dynamical modelling of hydraulic excavator considered as a multibody system. Tehnicki Vjesnik, 2017, 24, .	0.2	4
15	A THEORETICAL-EXPERIMENTAL APPROACH FOR ELASTO-DAMPING PARAMETERS ESTIMATION OF CONE INERTIAL CRUSHER MOUNTING. Facta Universitatis, Series: Mechanical Engineering, 2017, 15, 73.	4.6	3
16	Web based tool for modeling and simulation of vehicles collisions. , 2014, , .		0
17	Quantitative measures for assessment of the hydraulic excavator digging efficiency. Journal of Zhejiang University: Science A, 2012, 13, 926-942.	2.4	10
18	Mathematical modelling of translational motion of rail-guided cart with suspended payload. Journal of Zhejiang University: Science A, 2007, 8, 1395-1400.	2.4	4